

1632

<b>TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT</b> (Under 37 CFR 1.97(b) or 1.97(c)) NOV 04 2004	Docket No. 14727 JFW
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In Re Application Of **Martin Frederick Pera**

Application No. 09/885,679	Filing Date June 20, 2001	Examiner Joseph T. Voitach	Customer No. 23389	Group Art Unit 1632	Confirmation No. 6362
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Title:  
**METHODS OF CULTURING EMBRYONIC STEM CELLS AND CONTROLLED DIFFERENTIATION**

Address to:  
**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**37 CFR 1.97(b)**

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☒ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☒ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
14727

Re Application: **Martin Frederick Pera**

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
09/885,679	June 20, 2001	Joseph T. Voitach	23389	1632	6362

Title:

**METHODS OF CULTURING EMBRYONIC STEM CELLS AND CONTROLLED DIFFERENTIATION**

**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \_\_\_\_\_ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below.
- ☐ Charge the amount of \_\_\_\_\_
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.
- ☐ Payment by credit card. Form PTO-2038 is attached.

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

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November 2, 2004  
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Signature of Person Mailing Correspondence

Frank S. DiGiglio  
Typed or Printed Name of Person Mailing Certificate

\*This certificate may only be used if paying by deposit account.

  
Signature

Dated: November 2, 2004

Frank S. DiGiglio  
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Frank S. DiGiglio

3. Finley M.F.A. et al., "BMP-4 Inhibits Neural Differentiation of Murine Embryonic Stem Cells", *Journal of Neurobiology* 40(3):271-287 (1999), XP-009017895;
4. Andrade J. et al., "BMP-2 Regulation of the Differentiation of Human Pluripotent Stem Cells", *Cell Biology International* 24(12):1008 (2000), XP-002288134;
5. Pera M.F. et al., "Human Embryonic Stem Cells", *Journal of Cell Science* 113:5-10 (2000), XP-002950487;
6. Ying Q.L. et al., "BMP Induction of Id Proteins Suppresses Differentiation and Sustains Embryonic Stem Cell Self-Renewal in Collaboration with STAT3", *Cell* 115:281-292 (2003), XP-002288135; and
7. Pera M.F. et al., "Regulation of Human Embryonic Stem Cell Differentiation by BMP-2 and its Antagonist Noggin", *Journal of Cell Science* 117(7):1269-1280 (2004), XP-009030261.

The references were cited in a Supplementary Search Report dated August 3, 2004 received from the European Patent Office. Applicant is submitting copies of references nos. 1-2, 4 and 6-7, together with a copy of the Search Report. The relevance of the above-identified references has been described in the Search Report. Please note that above-cited reference no. 3 was filed in an Information Disclosure Statement dated November 1, 2001 and above-cited reference no. 5 was filed in an Information Disclosure Statement dated July 28, 2001.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(c)(1) and (e)(1), a statement is enclosed.

Respectfully submitted,



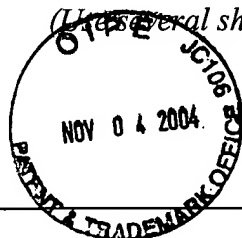
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(REV. 7-80) PATENT AND TRADEMARK OFFICE

# LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)



Atty. Docket No. (Optional)

14727

Application Number

09/885,679

Applicant(s)

Martin Frederick Pera

Filing Date

June 20, 2001

Group Art Unit

1632

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
AA						
AB						
AC						
AD						
AE						

## FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Grabel L. et al., "Using EC and ES Cell Culture to Study Early Development: Recent Observations on Indian Hedgehog and Bmps", <i>Int. J. Dev. Biol.</i> 42:917-925 (1998), XP-002963060
	Wiles M.V. et al., "Embryonic Stem Cell Development in a Chemically Defined Medium", <i>Experimental Cell Research</i> 247:241-248 (1999), XP-002209791
	Finley M.F.A. et al., "BMP-4 Inhibits Neural Differentiation of Murine Embryonic Stem Cells", <i>Journal of Neurobiology</i> 40(3):271-287 (1999), XP-009017895
	Andrade J. et al., "BMP-2 Regulation of the Differentiation of Human Pluripotent Stem Cells", <i>Cell Biology International</i> 24(12):1008 (2000), XP-002288134
	Pera M.F. et al., "Human Embryonic Stem Cells", <i>Journal of Cell Science</i> 113:5-10 (2000), XP-002950487
	Ying Q.L. et al., "BMP Induction of Id Proteins Suppresses Differentiation and Sustains Embryonic Stem Cell Self-Renewal in Collaboration with STAT3", <i>Cell</i> 115:281-292 (2003), XP-002288135
	Pera M.F. et al., "Regulation of Human Embryonic Stem Cell Differentiation by BMP-2 and its Antagonist Noggin", <i>Journal of Cell Science</i> 117(7):1269-1280 (2004), XP-009030261

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**IN TYPE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicant:** Martin Frederick Pera  
**Serial No.:** 09/885,679  
**Filed:** June 20, 2001  
**For:** METHODS OF CULTURING  
EMBRYONIC STEM CELLS AND  
CONTROLLED DIFFERENTIATION  
**Examiner:** Joseph T. Voitach  
**Art Unit:** 1632  
**Docket:** 14727  
**Dated:** November 2, 2004

**Confirmation No.:** 6362

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT PURSUANT**  
**TO 37 C.F.R. § 1.97(c)(1) and (e)(1)**

Sir:

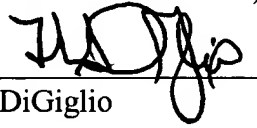
I hereby state that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 2, 2004.

Dated: November 2, 2004

  
Frank S. DiGiglio

Accordingly, it is respectfully requested that the accompanying Information Disclosure Statement be considered with respect to the above-identified application.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "F. DiGiglio", with a stylized flourish at the end.

Frank S. DiGiglio  
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